

# GIA – Get Intune Assignments

Developed by

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## About

Get Intune Assignments is a C#.NET program developed for Intune to query MS Graph Information.

This App intends to retrieve all Intune Items Assignments.

The focus is to retrieve Assignments Items target an Azure AD Group.

You can also export the data to CSV file if you wish.

Please send me any feedback you want. This can help me to fix bugs and make better solutions to help everyone.

## Copyrights Warranty and Support

This App is totally **Free**. I created it for **personal purposes** and decided to share it with the community.

I created this app in my free time, and I don't have much, like most people, so I can't give support or warranty the

App will work like expected in your environment. Just trying to make my part in the world.

You are not required to use this. If you want to test it, I hope it can be useful.

## Requirements

**User access** to Intune and Azure Resources:

Users must have access to read All Intune Items and query for Azure AD Groups.

**Create/Register** an Azure App to Get Intune Assignments and get data from the environment.

Follow the **Read Rights** the User and the Azure App may need:

`Directory.Read.All`

`DeviceManagementApps.Read.All`

`DeviceManagementConfiguration.Read.All`

`DeviceManagementServiceConfig.Read.All`

`Group.Read.All`

`GroupMember.Read.All`

`Policy.Read.All`

`User.Read.All`

## Document Version

This document was updated on **April 17, 2023**.

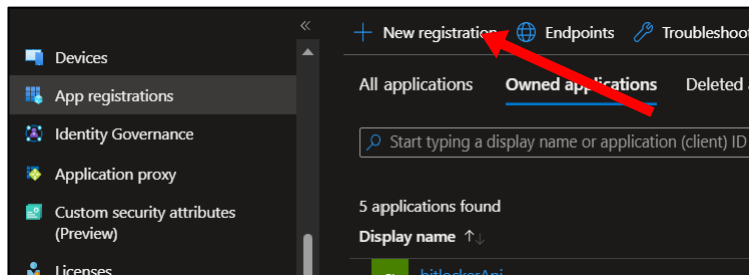
## Creating an App Registration on your Azure AD.

The Get Intune Assignments Application uses an **App Registered** to get MS Graph Token Authentication to be able to query your Intune and Azure Environment.

### Note

You can use any App you already have if your App have the Read Permissions Required.

Log in to the Azure Portal for your subscription, and go to the [App Registrations](#) Blade. Click **New registration** to create an Azure AD Application:



Give a **Name** for your application i.e., "GetIntuneAssignments"

Select the **Supported account types** i.e., "Accounts in this organizational directory only (YOURDOMAIN.COM only - Single tenant)"

At **Redirect URI** (optional) choose **Public client/native (mobile & desktop)** and enter the following address:

"<https://login.microsoftonline.com/common/oauth2/nativeclient>"

Click the **Register** button.

**Register an application** ...

**Name**  
The user-facing display name for this application (this can be changed later).  
GetIntuneAssignments ✓

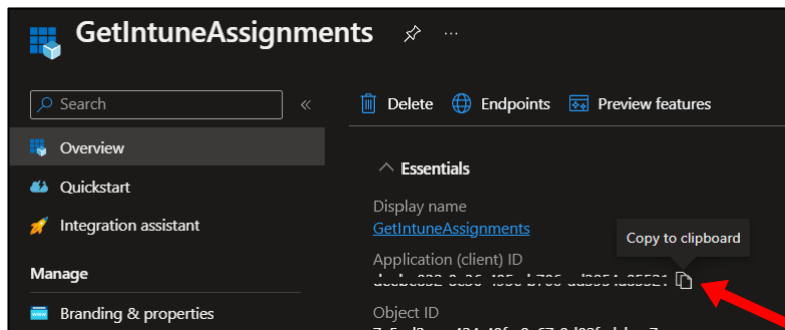
**Supported account types**  
Who can use this application or access this API?  
☒ Accounts in this organizational directory only (SIDS.COM only - Single tenant)  
☐ Accounts in any organizational directory (Any Azure AD directory - Multitenant)  
☐ Accounts in any organizational directory (Any Azure AD directory - Multitenant) and personal Microsoft accounts (e.g. Skype, Xbox)  
☐ Personal Microsoft accounts only  
[Help me choose...](#)

**Redirect URI (optional)**  
We'll return the authentication response to this URI after successfully authenticating the user. Providing this now is optional and it can be changed later, but a value is required for most authentication scenarios.  
Public client/native (mobile ...) https://login.microsoftonline.com/common/oauth2/nativeclient ✓

By proceeding, you agree to the Microsoft Platform Policies [Policies](#)

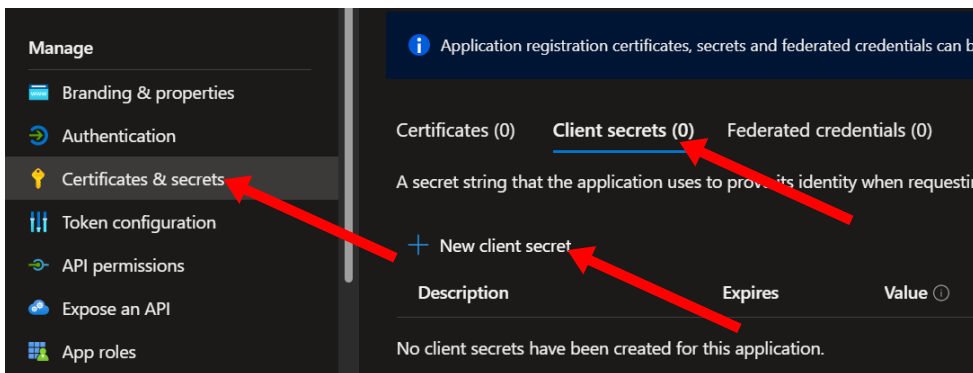
**Register**

After creating/registering the App. Copy your **application (client) ID** to use in GIA configuration:

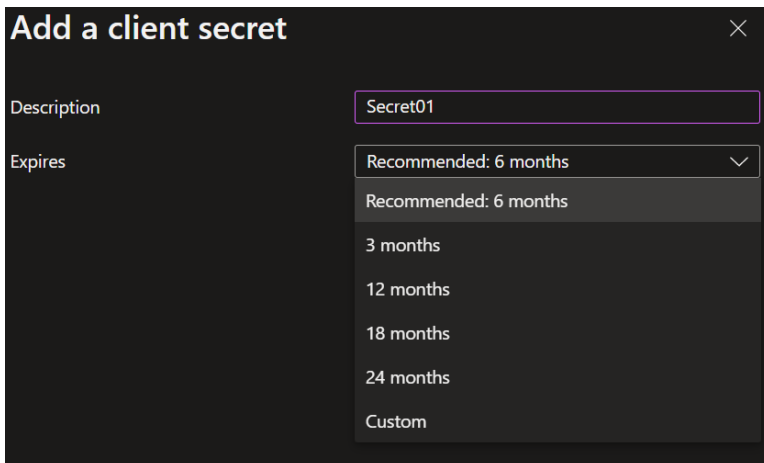


If you want to use Client Secret (**optional**) you can click Certificate & secrets to create a secret to your App:

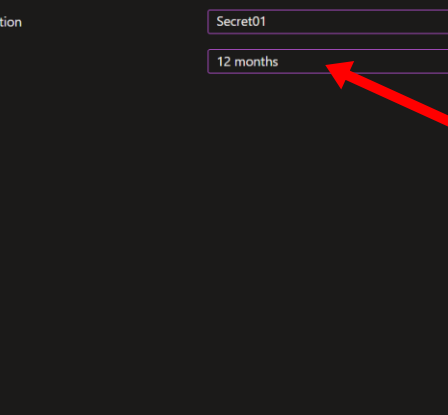
Click on Client secrets and + New client secret:



Determine how much time you want your secret to expire:



And click the Add button:



**Add a client secret** [X]

Description: Secret01

Expires: 12 months [v]

[Add] [Cancel]

When finished **copy the Value** of the Secret:

The screenshot shows the 'Client secrets' tab selected in the top navigation bar. Below the tabs, there's a descriptive text: 'A secret string that the application uses to prove its identity when requesting a token. Also can be referred to as application password.' Underneath this is a '+ New client secret' button. A table lists existing secrets with columns: Description, Expires, Value, and Secret ID. The first row shows 'Secret01' expiring on '9/23/2023'. The 'Value' column contains a masked secret, and the 'Secret ID' column shows a GUID. A red arrow points to the copy icon next to the Secret ID.

| Description | Expires   | Value    | Secret ID          |
|-------------|-----------|----------|--------------------|
| Secret01    | 9/23/2023 | [Masked] | [GUID] [Copy Icon] |

### Note

After creating Secrets, you **Need to Copy** the **Value**.  
**Azure will hide the value** after you leave the page.  
 So, **Don't Forget to copy** the Value before leave.

## Starting with Get Intune Assignments Application.

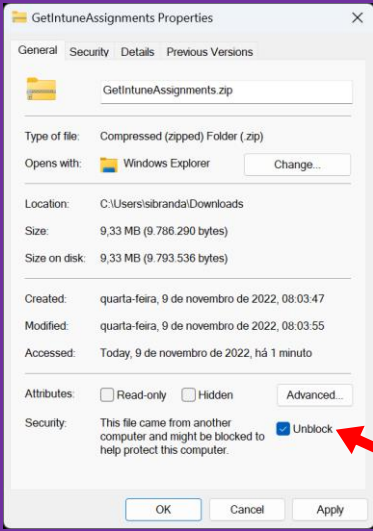
Go to the **Folder** where you **download** the **Get Intune Assignments** Application:

First, check if the Zip file you downloaded is not **Locked**.

**Note**

When the file is downloaded from internet  
It can be blocked for safety.  
Check if your Zip file is not **Blocked**:

**Before Extract**  
Right click on the file  
Go to the **Properties**  
Uncheck the “**Unblock**” checkbox if need  
Click **Ok**.  
Then, you can extract the content.

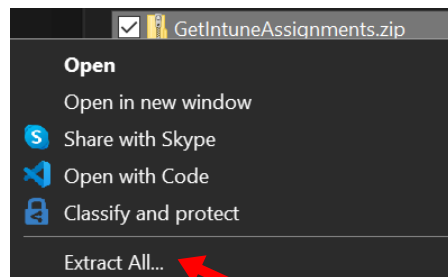


Extract Get Intune Assignments App from zip file

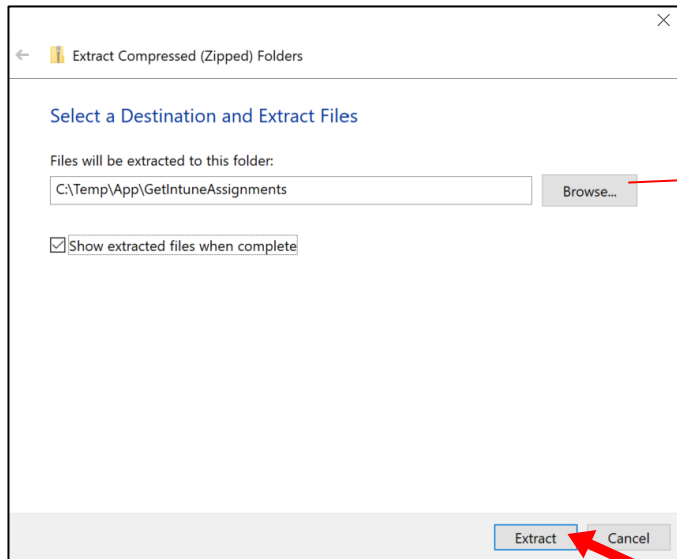
You can use any tool you want for this.

Here is how to use **Windows Compressed Folder** to extract:

Right click on the File and Click on **Extract All...**

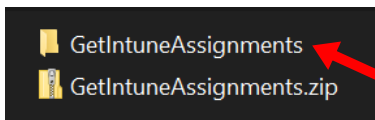


In the wizard window hit **the Extract** button and wait to complete.



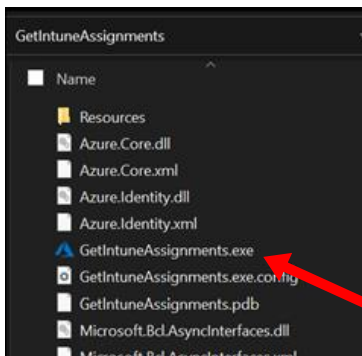
You can Browse for another folder if you wish.

Will be created a new **folder** at directory you choose:



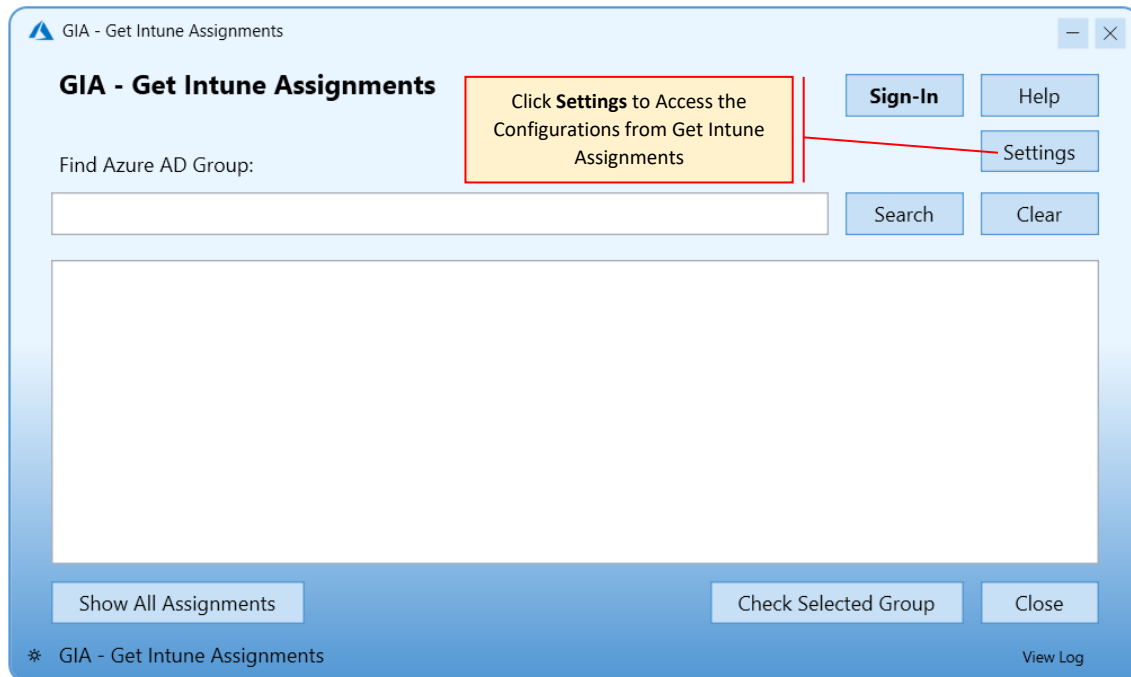
Open this folder and locate  GetIntuneAssignments.exe

Double click to run the Application

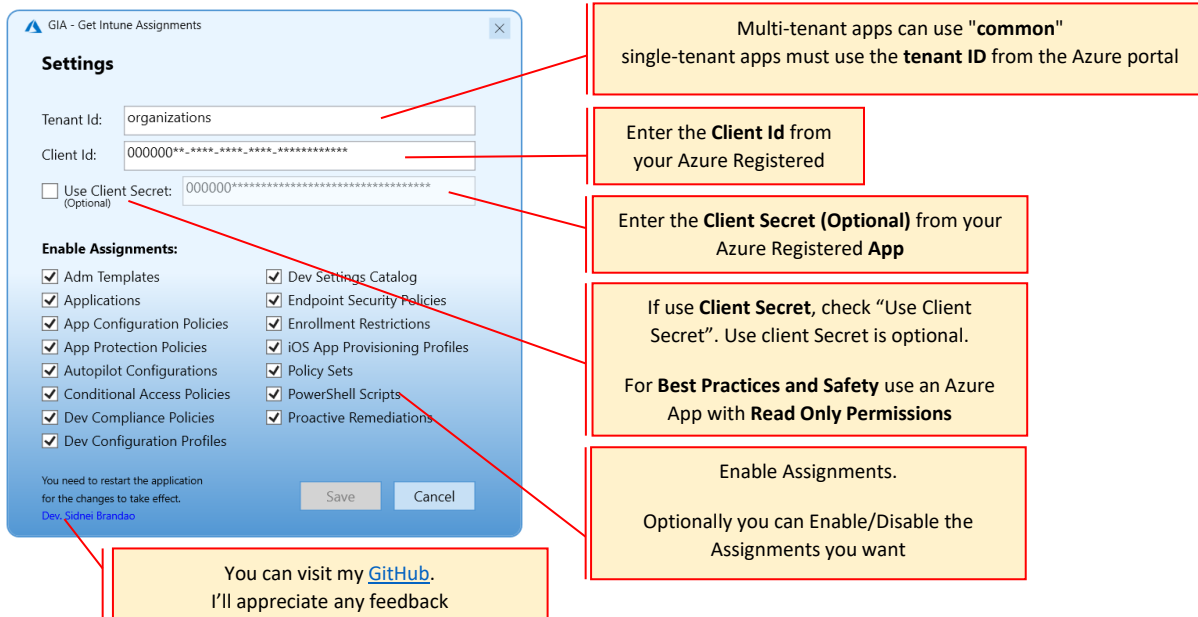


## Configuring Get Intune Assignments Application.

In the Main Windows from **Get Intune Assignments** clique the **Settings** Button.

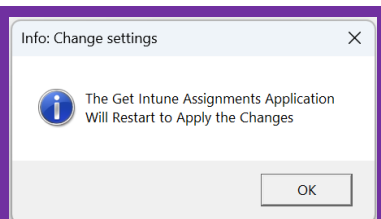


Enter your **Client** and **Tenant Id** and **Save** the Settings.



### Note

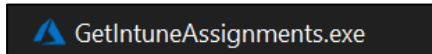
Be sure to enter the correct application (Client) Id from your app to Get Intune Assignments Work properly. Get Intune Assignments will **Restart** for the changes take Effect.



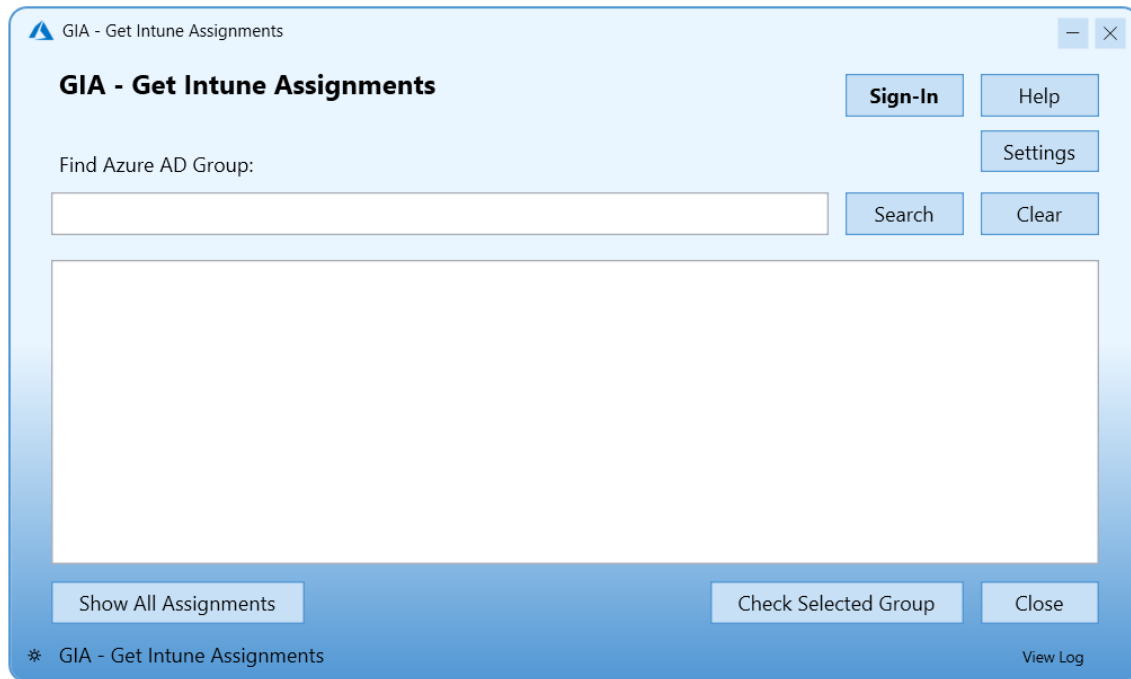
## Running Get Intune Assignments Application.

After setting your **Client ID** you can now **Run** the **application**.

Just execute **GetIntuneAssignments.exe**

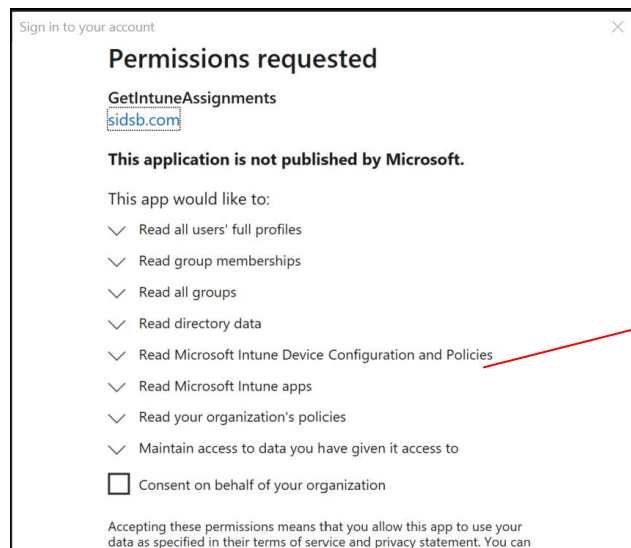


The Application will start:



You can click on **Sign-In** Button and enter your **Azure AD User** who have **Rights** to **read Intune** objects.

**First Time Sign-In using an User**, the Permission dialog box will ask you to **Consent the permissions**.



### Note

**ALL Permissions** application needs is set to **READ**.  
Get Intune Assignments **Can't** and **Won't** change anything in  
your environment.



Confirm everything is **READ** permissions.

Check **“Consent on behalf of your organization”** and click **Accept Button**

✓ Read Microsoft Intune apps  
✓ Read your organization's policies  
✓ Maintain access to data you have given it access to  
☒ Consent on behalf of your organization

If you accept, this app will get access to the specified resource for all users in your organization. No one else will be prompted to review these permissions.

Accepting these permissions means that you allow this app to use your data as specified in their terms of service and privacy statement. You can change these permissions at <https://myapps.microsoft.com>. [Show details](#)

Does this app look suspicious? [Report it here](#)

Cancel Accept

### Note

Get Intune Assignments needs **Read Only** permissions.  
The App will **NEVER** change anything in your environment.

After Consent you can see the user is Signed In

GIA - Get Intune Assignments

**GIA - Get Intune Assignments** Welcome sidnei@ Sign-Out Help

Find Azure AD Group: Settings

Search Clear

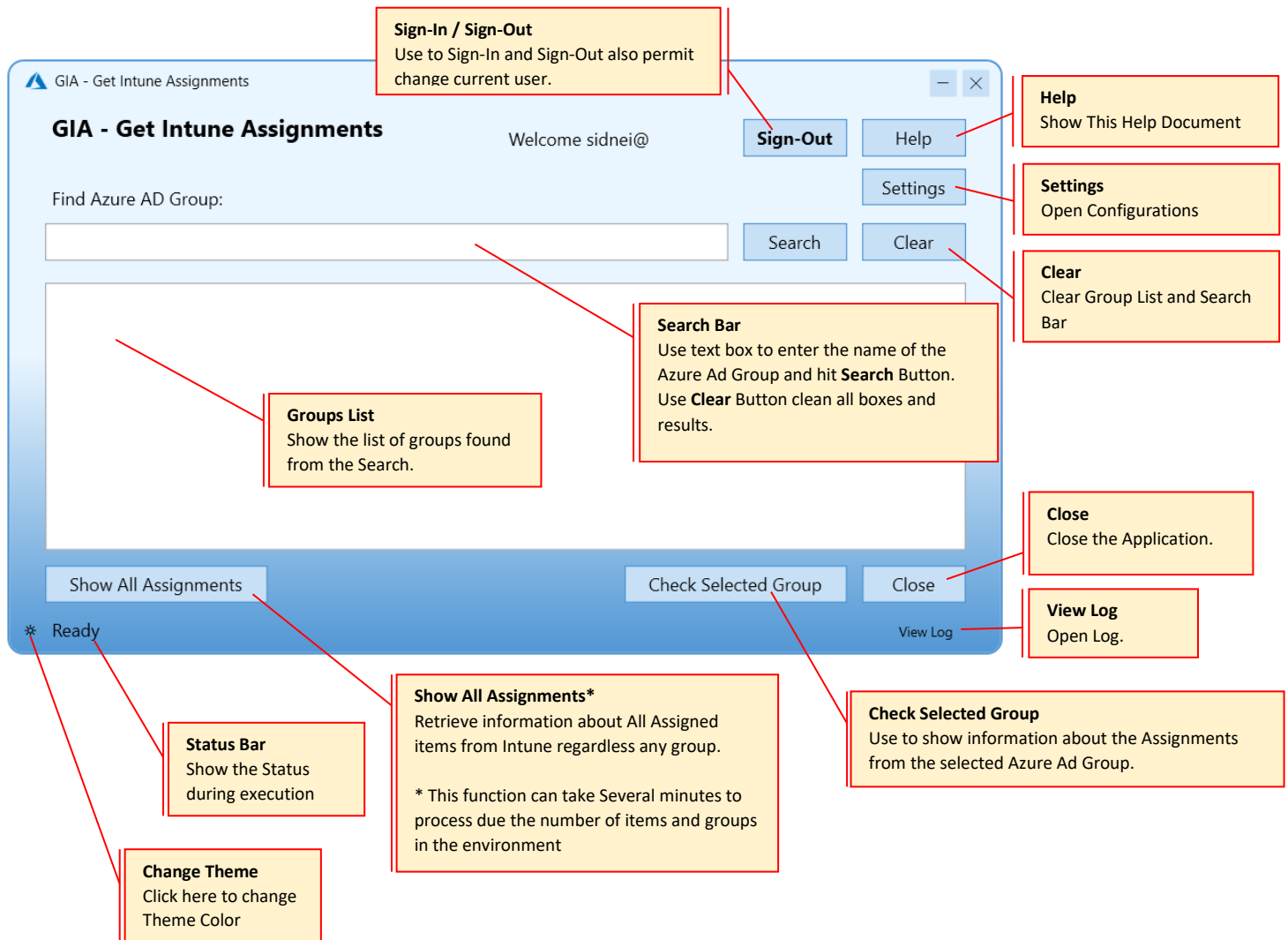
Show All Assignments Check Selected Group Close

\* Ready View Log

Signed user UPN.  
If using Secret App, GIA will show:  
**Using App Secret**

GIA Application is ready to use.

## Interface Elements on Get Intune Assignments Application.



## How to retrieve Information from specific Azure AD Group.

Type any string to search for a Azure AD Group and hit **Search** Button:

After searching, select an Azure AD Group you want to retrieve Information then Click **Check Selected Group**

The screenshot shows the 'GIA - Get Intune Assignments' application window. At the top, there's a header with the title 'GIA - Get Intune Assignments', a welcome message 'Welcome sidnei@', and buttons for 'Sign-Out', 'Help', and 'Settings'. Below the header, there's a search section with the label 'Find Azure AD Group:' and a text input field containing 'autopilot'. A yellow callout box points to the input field with the text 'Name or string to search for Azure Ad Groups'. To the right of the input field are 'Search' and 'Clear' buttons. Below the search section is a list of Azure AD groups. The first four are 'Intune - Autopilot Devices - Self-Deploying', 'Intune - Autopilot Devices - User-Driven', 'Intune - Autopilot Devices - User-Driven Pre Provisioned', and 'Intune - AutoPilot Users'. The fifth group, 'Intune - Devices - Windows - Autopilot Dynamic', is selected and highlighted in blue. A yellow callout box points to this group with the text 'Selected Group'. At the bottom of the window, there are three buttons: 'Show All Assignments', 'Check Selected Group', and 'Close'. A yellow callout box points to the 'Check Selected Group' button with the text 'Click to retrieve information from Selected Group'. The status bar at the very bottom shows '\* Ready' on the left and 'View Log' on the right.

A new window comes Up showing the retrieved information:

The screenshot shows a new window titled 'Checking Intune Assignments'. At the top, it says 'AAD Group: Intune - Devices - Windows - Autopilot Dynamic'. Below this is a list of Intune assignment categories and their counts: 'App Protections Policies: 0', 'Contional Access Policies: 0', 'Device Compliance Policies: 0', 'Device Configuration Profiles: 2', 'Device Settings Catalog: 0', and 'Endpoint Security Policies: 0'. A yellow callout box points to the 'Device Configuration Profiles: 2' entry with the text 'Configuration Profiles assigned to the Selected group'. At the bottom of the window are 'Export' and 'Close' buttons. A yellow callout box points to the 'Close' button with the text 'Close Close the current Window'. Another yellow callout box points to the 'Export' button with the text 'Export Use to Export result to a CSV file'. A yellow callout box at the top right of the window says 'Name from selected Azure AD Group'. A larger yellow callout box on the right side of the window says 'This window shows How many assignments was found target the selected group. Note if none was found you will see "0" objects'.

To see the information about the Assignments, click on the Item you want:

Device Compliance Policies: 0

**Device Configuration Profiles: 2**

Device Settings Catalog: 0

Click at **Device Configuration Profile** to see details

GIA - Get Intune Assignments

**Showing Device Configuration Profiles Assignments**

AAD Group: Intune - Devices - Windows - Autopilot Dynamic

Name from selected Azure AD Group

| Display Name   | Group Name                     | Assignment Type       | Profile Type                  | Created Date        | Last Modified Date Time | Description   |
|--|--------------------------------|-----------------------|-------------------------------|---------------------|-------------------------|---|
| Win 10 Enable Autopilot Reset from LockScreen        | Intune - Devices - Windows - A | GroupAssignmentTarget | Windows10GeneralConfiguration | 17/08/2022 14:33:33 | 17/08/2022 14:33:34     |   |
| Win 10 Enable Azure Active Directory self-service pa | Intune - Devices - Windows - A | GroupAssignmentTarget | Windows10CustomConfiguration  | 17/08/2022 14:43:42 | 17/08/2022 14:43:42     | <a href="https://docs.microse">https://docs.microse</a> |

Information about the Device Configuration Profiles assignments in the Selected Group

Close the current Window

Close

Resize the current Window

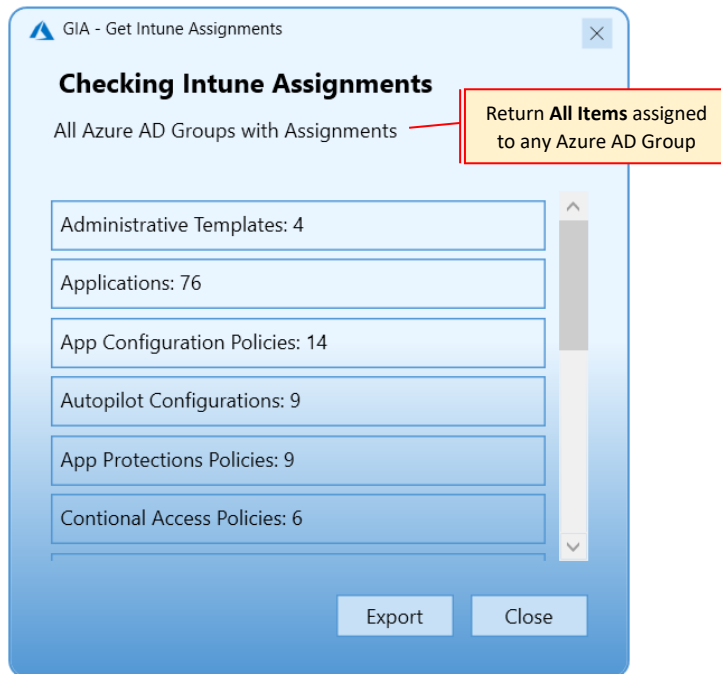
## Retrieving Information from All Intune Assignments.

Is possible to retrieve all Intune Assignments regardless of the Azure Ad Group Selected.

You don't need to search for a group.

Just click the button

Show All Assignments



### Note

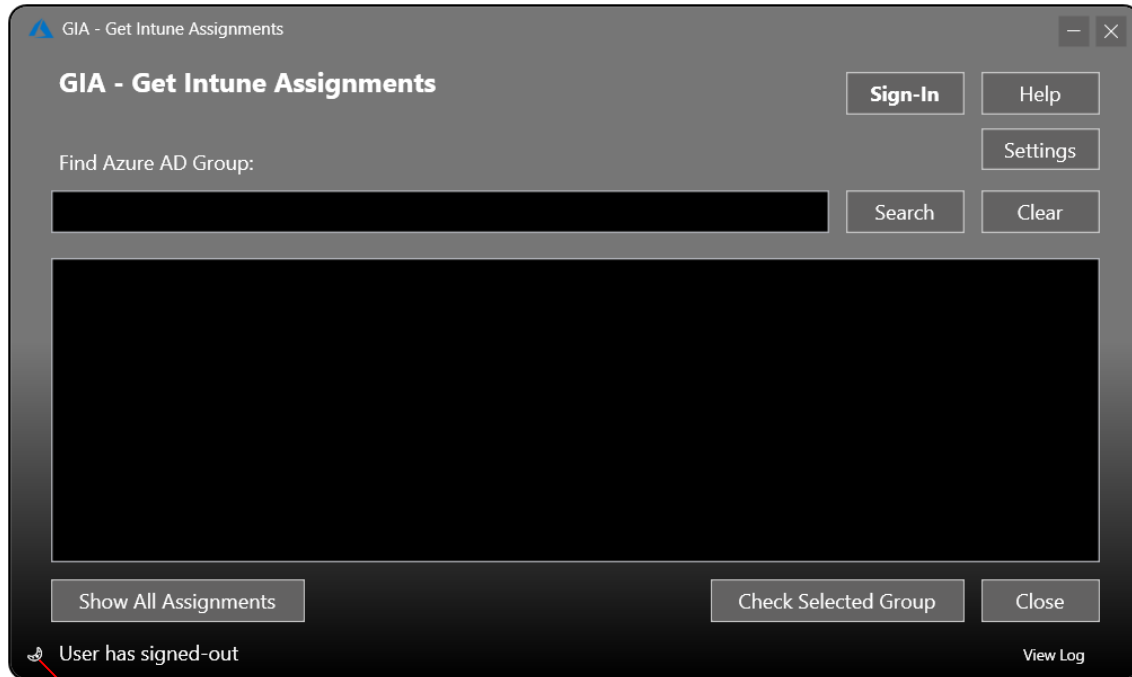
Get Intune Assignments will bring Only items that are assigned in some Azure AD Group.

### Note

Keep in mind this action can take **Several minutes** to complete depending on the number of Items and groups in the environment.

## Enjoy Dark Theme Support.

Is possible to Switch between Light and Dark Theme clicking on Sun/Moon Icon



**Change Theme**  
Click here to change  
Theme Color

## Version History

ver. 0.0a – June 15, 2022

Just a bunch of command line scripts in PowerShell to get Configuration Profiles and Apps.

ver. 0.0b – July 05, 2022

New scripts to get Compliance Policies

ver. 0.1a – July 27, 2022

The First version with GUI.

Added Administrative Templates and Device Catalogs

ver. 0.1b – August 22, 2022

The First version who worked.

Possible to retrieve the follow assigned items from Intune:

- Administrative Templates
- Applications
- Device Compliance Policies
- Device Configuration Profiles
  - Delivery Optimization
  - Device Restrictions
  - Custom
  - Identity Protection
  - Trusted Certificate
- Device Settings Catalogs
- PowerShell Scripts

Function to search and retrieve from the selected group

Function to retrieve all Assigned items (from the list above) from Intune regardless any group

ver. 0.1c – August 24, 2022

Removed the need for AzureAD Module

Increase speed in Groups query

BUG Fix

- Fix two requests of authentications
- GUI fixes and improvements
- If a new group was created with Script running was not possible to find the new group
- Fix limit of 100 groups on search
- Fix description column position

ver. 0.2b – August 25, 2022

Added Endpoint Security Policies

BUG Fix

- Minor errors fixed

ver. 1.0a – August 30, 2022

Starting to rebuild in C# .NET framework 4.8

Created the Main Form

Function to search AAD Groups

Function to Check Adm Templates

ver. 1.1a – September 02, 2022

Added Functions:

- Applications
- Device Compliance Policies

BUG Fix

- Fixed interface commands to Search
- Enhanced GUI objects
- Minor errors fixed

ver. 1.2a - September 09, 2022

Added Functions:

- Applications
- Device Compliance Policies
- Device Configuration Profiles
- Device Settings Catalog
- Endpoint Security Policies

BUG Fix

- Fixed Dialog Windows
- Minor errors fixed

ver. 1.2b - September 10, 2022

First beta version using C#.Net

Added Functions:

- PowerShell Scripts
- Conditional Access
- Created Sign-Out Function
- Created writeLog Function

ver. 1.3a - September 14, 2022

Created Help function and Doc.

Added Functions:

- Show All Intune Assignments Regardless Azure AD Group
- Export to CSV File

BUG Fix

- Fixed error on export Applications with Description in Multiline
- Minor errors fixed

Released this version to Alpha Test

ver. 1.3b - September 20, 2022

First released Beta Version

Created Settings Dialog to Configure Client ID and Tenant

Dark Theme

Created customized Title Bar

Added Functions:

- App Configuration Policies
- App Protection Policies

BUG Fix

- Fixed Alphabetical in results

ver. 1.4a - September 23, 2022

Graphical Interface enhancements

New title bar and window visuals

Added Functions:

- Auto Restart when changing Settings

BUG Fix

- Windows position in current monitor
- Save config file if was changed
- Export to file now include all Items
- Fixed Messages Box to show correct information
- Minor bugs fixed

ver. 1.5 - November 07, 2022

Introduced the Acronym GIA

Added support to use app secret (optional)

Apps now show available or required

Added Functions:

- Policy Sets

BUG Fix

- PowerShell Scripts missing from report



ver. 2.0 - April 17, 2023

Encrypted tenant data in config file

Added inclusion or exclusion group information for supported assignments

Multi window support

Settings new option to enable/disable assignments information

Scroll bar on Assignments window

Checking Intune Assignments scroll bar support

Added Functions:

- Autopilot Configurations
- Enrollment Restrictions
- iOS App Provisioning Profiles
- Proactive Remediations

BUG Fix

- Fixed multi errors messages when a group couldn't be retrieved
- Fix checkbox color in dark theme
- Fixed Sign-Out when using app secret
- Fixed CSV Export Format
- Fixed Description texts
- Minor interface bugs fixed

**Thanks to all who collaborate and gave feedback to make GIA Better.**